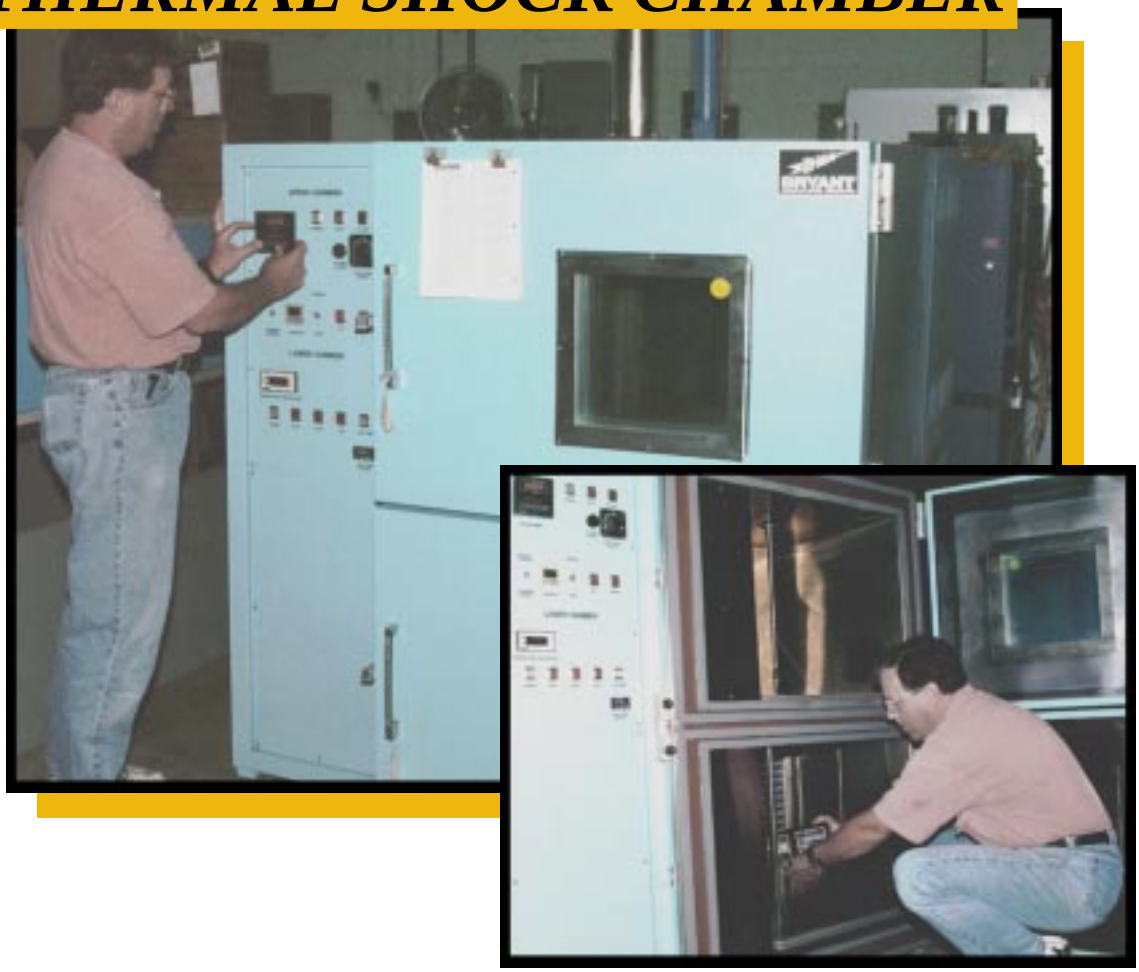
Environmental Laboratory
THERMAL SHOCK CHAMBER



The Thermal Shock Chamber simulates the sudden changes in temperature that could occur in service due to rapid altitude changes during shipments and air drops. The Model TA-208CC is a two station thermal shock chamber. The top chamber is heated by resistant-type heaters and the bottom chamber is cooled by a cascade-type mechanical refrigeration system. A pneumatically operated basket transfers the test item between the top and bottom chambers. The basket transfer is microprocessor controlled with either a time base or test item temperature. A port is available for dynamic testing with external wire connections. Special features of the Thermal Shock Chamber are: Top Chamber Lab ambient to $+200^0$ Celsius; Bottom Chamber -73^0 Celsius to $+177^0$ Celsius; Transfer rate <15 seconds; and total interior work space of 20”x20”x20”.

For more information, contact the Electrical Power Systems Division at the Naval Air Warfare Center Aircraft Division, Patuxent River, MD 20670 at 301-342-0823.